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93-26273

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Department  
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Defense

# DoD Electronic Data Interchange (EDI) Convention

## ASC X12 Transaction Set 841 Specifications/Technical Information (Solicitation Technical Documentation) (Version 003030)

This document was prepared by the Logistics Management Institute for the Under Secretary of Defense (Acquisition and Technology), Computer-aided Acquisition and Logistics Support and Electronic Data Interchange, under Task PL311. The task was performed under Contract MDA903-90-C-0006 with the Department of Defense. Permission to quote or reproduce any part of this document except for Government purposes must be obtained from the OUSD(A&T) CALS/EDI.

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BASELINE AS OF: JULY 9, 1993

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Accession No.	
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DRAFT IMPLEMENTATION CONVENTION**

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## 1.0 INTRODUCTION

This chapter explains the purpose of the convention, and the scope of the guidance and provides an explanation of how to use the convention.

### 1.1 PURPOSE OF THE CONVENTION

The convention provides general guidance on the implementation of American National Standards Institute (ANSI) Accredited Standards Committee (ASC) X12 electronic data interchange (EDI) standards within automated information systems (AIS) and on information interchange procedures that require the collection, reporting, and/or exchange of data needed to perform defense missions.

### 1.2 SCOPE

The guidance presented here may be used by organizational elements of the DoD community and by non-DoD organizations that exchange data with the DoD community in the course of their business relationships.

The DoD community encompasses the Military Services, Organizations of the Joint Chiefs of Staff, Unified and Specified Commands, Office of the Secretary of Defense, and the Defense agencies. (That community is collectively referred to as the DoD Components).

Non-DoD organizations include (a) non-Government organizations, both commercial and nonprofit; (b) Federal agencies of the United States Government other than DoD; (c) local and state governments; (d) foreign national governments; and (e) international government organizations.

The draft convention published in this document is for trial use and comment. DoD Components must submit to the Office of the Under Secretary of Defense (Acquisition and Technology), Computer-aided Acquisition and Logistics Support and Electronic Data Interchange [OUSD (A & T) CALS/EDI] their data requirements that are not covered in this convention as soon as possible, as indicated in Chapter 2.0, Section 2.1.

### 1.3 RESPONSIBLE ENTITY

{Reserved}

### 1.4 HOW TO USE THE IMPLEMENTATION CONVENTION

The main topics and structures of this document conform to the *EDI Implementation Reference Manual Guidelines* document that was developed by a task group of the subcommittee on education and implementation of the ASC X12. The purpose of having

agreed-upon topics and structure is to facilitate reference by the many industry and DoD personnel who are involved in implementing the uniform standards for electronic interchange of business transactions.

#### 1.4.1 Conventions, Standards, and Guidelines

The terms conventions, standards, and guidelines are used throughout this document and are defined as follows:

- *Conventions* are the common practices and/or interpretations of the use of ASC X12 standards. Conventions define what is included in a specific implementation of an ASC X12 standard.
- *Standards* are the technical documentation approved by ASC X12; specifically, transaction sets, segments, data elements, code sets, and interchange control structure. Standards provide the structure for each ASC X12 document.
- *Guidelines* are instructions on the use of EDI. They provide additional information to assist in conducting EDI. Guidelines are intended to provide assistance and should not be your sole source of information.

##### 1.4.1.1 Who Develops the Conventions?

Conventions result from a joint effort by business, technical, and EDI ASC X12 standards experts. The business data requirement is defined, a transaction set is selected, and the data requirement is then identified with data elements in the transaction set. A convention is usually developed before any computer EDI systems development work and serves as a design document when the development process begins.

##### 1.4.1.2 Why Use a Convention?

To create an ASC X12 transaction, a user must know the data requirements, understand the ASC X12 standard, and be able to use that information to develop an interface program between the computer application and the ASC X12 translator. The necessary information to perform that task is contained in the convention document. Users who follow the convention will create a transaction set that all DoD users understand.

##### 1.4.1.3 Who Needs a Convention?

System analysts and application programmers who plan to create or read ASC X12 transactions use a convention to aid in interface software design. The convention will help the programmer and analyst identify where their application data requirement should be carried in an ASC X12 transaction set.

##### 1.4.4.4 Can I Develop a Convention?

Conventions already exist for some of the most common business practices. Copies of existing conventions can be acquired through your organization's EDI coordinator at the start of an EDI project. If you find no conventions for the business practice you are about to implement, your EDI coordinator should contact the CALS

Evaluation and Integration Office. See Chapter 2.0, *Maintenance*, Section 2.1 for the point of contact.

## 1.4.2 Documentation of Conventions

Conventions are adopted from, and are intended to be in conformance with, ANSI ASC X12 standards or ASC X12 Draft Standards for Trial Use (DSTU).

### 1.4.2.1 Transaction Set

Figure 1.4-1 provides an example of a transaction set table. The transaction set defines information of business or strategic significance and consists of a transaction set header segment, one or more data segments in a specified order, and a transaction set trailer segment. The actual ASC X12 standard as it appears in the official ASC X12 standards manual is presented on the right side of the page. That standard also includes both syntax notes and comments. The specific DoD usage designator is presented on the left side of the page.

The designation "N/U" stands for "not used" and appears in the left column if DoD does not use the specific segment. A page number will appear if the segment is used.

### 1.4.2.2 Transaction Set Segment

Figure 1.4-2 is an example of a transaction set segment.

DoD usage is specified on the left side of the page. For identifier (ID)-type data elements, acceptable code values are listed on the right side of the page under the definitions of the element.

DoD notes, reflecting how the convention is to be used appear on the right side of the page at the segment level or the data element level.

The following definitions are for use in interpreting the data element requirement designators in the DoD-specific segment directory section of the convention. For ASC X12 usage, see the definitions in *X12.6 Application Control Structure*.

- *Mandatory*  
Mandatory data elements are defined by ASC X12.
- *Optional*  
Optional data elements are used at the discretion of the sending party or are based upon mutual agreement between trading partners.
- *Required*  
Required data elements are considered optional under ASC X12 rules but are required by DoD decision.
- *Recommended*  
Recommended data elements are considered optional under ASC X12 rules and by the DoD, but the industry recommends

## 824 Application Advice

This standard provides the format and establishes the data contents of the Application Advice Transaction Set (824) within the context of an Electronic Data Interchange (EDI) environment. This transaction set provides the ability to report the results of an application system's data content edits of transaction sets. The results of editing transaction sets can be reported at the functional group and transaction set level, in either coded or free-form format. It is designed to accommodate the business need of reporting the acceptance, rejection or acceptance with change of any transaction set. The Application Advice should not be used in place of a transaction set designed as a specific response to another transaction set (e.g., purchase order acknowledgement sent in response to a purchase order).

Table 1

PAGE #	POS. #	SEQ. ID	NAME	REQ. DEL.	MAX USE	LOOP REPEAT
2	010	ST	Transaction Set Header	M	1	
3	020	BGN	Beginning Segment	M	1	
			LOOP ID - NY			2
4	030	N1	Name	O	1	
5	040	N2	Additional Name Information	O	2	
6	050	N3	Address Information	O	2	
7	060	N4	Geographic Location	O	1	
8	070	REF	Reference Numbers	O	12	
9	080	PER	Administrative Communications Contact	O	3	

Table 2

PAGE #	POS. #	SEQ. ID	NAME	REQ. DEL.	MAX USE	LOOP REPEAT
			LOOP ID - OTI			10000
10	010	OTI	Original Transaction Identification	M	1	
12	020	REF	Reference Numbers	O	12	
13	030	DTM	Date/Time Reference	O	2	
N/U	040	PER	Administrative Communications Contact	O	3	
N/U	050	AMT	Monetary Amount	O	10	
N/U	060	QTY	Quantity	O	10	
			LOOP ID - TED			10000
14	070	TED	Technical Error Description	O	1	
15	080	NTE	Note/Special Instruction	O	100	
16	090	SE	Transaction Set Trailer	M	1	

Figure 1.4-1 Example of a Transaction Set Table

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**824 - APPLICATION ADVICE**  
**BGN - BEGINNING SEGMENT**

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<b>Mandatory</b>	<b>Segment: BGN Beginning Segment</b> <b>Level:</b> Header <b>Loop:</b> _____ <b>Usage:</b> Mandatory <b>Max Use:</b> 1 <b>Purpose:</b> To indicate the beginning of a transaction set <b>Syntax:</b> If BGN05 is used, BGN04 is required. <b>Comments:</b> <ol style="list-style-type: none"> <li>1. BGN02 is the Transaction Set Reference Number.</li> <li>2. BGN03 is the Transaction Set Date.</li> <li>3. BGN04 is the Transaction Set Time.</li> <li>4. BGN05 is the transaction set time qualifier.</li> </ol>																										
	<b>Data Element Summary</b>																										
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">REF ID</th> <th style="text-align: left; padding: 2px;">DATA ELEMENT NAME</th> <th style="text-align: left; padding: 2px;">DESCRIPTION</th> <th style="text-align: left; padding: 2px;">ATTRIBUTES</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">BGN01</td> <td style="padding: 2px;">353</td> <td style="padding: 2px;">Transaction Set Purpose Code Code identifying purpose of transaction set.</td> <td style="padding: 2px;">M ID 2/2</td> </tr> <tr> <td></td> <td></td> <td style="padding: 2px;">00 Original</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="padding: 2px;">01 Cancellation</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="padding: 2px;">04 Change</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="padding: 2px;">12 Not Processed</td> <td></td> </tr> </tbody> </table>				REF ID	DATA ELEMENT NAME	DESCRIPTION	ATTRIBUTES	BGN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set.	M ID 2/2			00 Original				01 Cancellation				04 Change				12 Not Processed
REF ID	DATA ELEMENT NAME	DESCRIPTION	ATTRIBUTES																								
BGN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set.	M ID 2/2																								
		00 Original																									
		01 Cancellation																									
		04 Change																									
		12 Not Processed																									
<b>Mandatory</b> <b>BGN02</b> 127 <b>Reference Number</b> Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.																											
<b>Mandatory</b> <b>BGN03</b> 373 <b>Date</b> Date (YYMMDD).																											
<b>Conditional</b>	<b>BGN04</b> 337 <b>Time</b> Time expressed in 24-hour clock time (HHMM, time range: 0000 through 2359).																										
	<b>Implementation Note:</b> <i>Use HHMM.</i>																										
<b>Not Used</b>	<b>BGN05</b> 623 <b>Time Code</b>																										

Figure 1.4-2 Example of a Transaction Set Segment

their use to facilitate EDI. Most companies in the industry are expected to use this data element.

- *Not Used*  
"Not Used" data elements are those that DoD does not use.
- *Conditional*  
Conditional data elements depend on the presence of other data elements in the transaction set.

## 2.0 MAINTENANCE

This chapter describes the procedures for maintaining the DoD conventions. It also presents a section on version/release timing.

### 2.1 MAINTAINING CONVENTIONS

{Reserved}

### 2.2 VERSION/RELEASE TIMING

Identification of the official "version" of a standard is critical to the successful interchange of information. Each participant must be able to send and receive the same version to ensure the accuracy of the information exchanged.

The version is transmitted as a 12-character code in the Functional Group Header segment (GS) in Data Element #480, Version/Release/Industry ID. This 12-character code is used by ASC X12 as follows:

<u>Position</u>	<u>Content</u>
1-3	Version number
4-5	Release level of version
6	Subrelease
7-12	DoD/Industry or Trade Association ID

ASC X12 assigns the codes in Positions 1 through 6.

The version number (001, 002, 003, etc.) will change only after an official public review cycle leads to republication of a new American National Standard.

The release level of each new major version (Positions 4-6 in the Functional Group Header) will begin at "000" and increased by 1 for each new ASC X12 approved publication cycle, usually once a year. The fourth and fifth characters designate the release and the sixth character designates the subrelease.

The DoD Industry Trade Association ID (Position 7-12) is used to identify conventions. For this suffix, DoD will use "DoD\_" with the 10th character identifying successive publications. The 11th and 12th characters may be used by the Military Departments or Defense agencies.

DoD conventions for using ASC X12 standards are published annually. Conventions developed for each release will be maintained for 4 years. Military Services and DoD agencies will determine which release to use on the basis of business need but will not use any release more than 4 years old without approval by the OUSD (A & T) CALS/EDI.

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## 3.0 DoD CONVENTIONS FOR USING ASC X12 TRANSACTION SETS

This chapter defines the DoD transaction set conventions. It includes the instructions for implementing the control structure and definitions of the usage indicators and applicable codes.

### 3.1 INTRODUCTION

The power of the ASC X12 standard is in its building block concept, which standardizes the essential elements of business transactions. The concept is analogous to a "standard bill of materials and the construction specifications," which gives the architect flexibility in what can be designed with standardized materials and procedures. The EDI system designer, like the architect, uses the ASC X12 standards to build business transactions that are often different because of their function and yet utilize the ASC X12 standards. The "bill of materials and the construction specification" of ASC X12 are the standards found in the published technical documentation.

ASC X12.3 – The *Data Element Dictionary* specifies the data elements used in the construction of the segments that comprise the transaction sets developed by ASC X12.

ASC X12.5 – The *Interchange Control Structure* provides the interchange control segment (also called an envelope) of a header and trailer for the electronic interchange through a data transmission; it also provides a structure to acknowledge the receipt and processing of the envelope.

ASC X12.6 – The *Application Control Structure* defines the basic control structures, syntax rules, and semantics of EDI.

ASC X12.22 – The *Data Segment Directory* provides the definitions and specifications of the segments used in the construction of transaction sets developed by ASC X12.

The DoD convention in Section 3.4 conforms to the above standards, and each transaction set is a complete document to the extent possible. For further clarification of acronyms, abbreviations, and codes, refer to ASC X12 published technical documentation. For copies, contact either the OUSD (A & T) CALS/EDI or the Data Interchange Standards Association, Inc., Suite 355, 1800 Diagonal Road, Alexandria, VA 22314.

### 3.2 CONTROL SEGMENTS

In addition to the communication control structure, the EDI structure provides the standards user with multiple levels of control to ensure data integrity. It does so by using header and trailer control segments

designed to identify uniquely the start and end of the interchange functional groups and transaction sets. The relationship of these control segments is shown in Figure 3.2-1. Control Segment specifications are defined in Section 3.2.2.

### 3.2.1 Description of Use

The interchange header and trailer segments surround one or more functional groups or interchange-related control segments and perform the following functions:

- Define the data element separators and data segment terminators
- Identify the sender and receiver
- Provide control information
- Allow for authorization and security information.

The Interchange Acknowledgment Segment is used to acknowledge one interchange header and trailer envelope where the envelope surrounds one or more functional groups. (No acknowledgment is made for the interchange acknowledgment.)

The interchange control number value in the acknowledgment (TA1 segment) is the same as that for the ISA segment that is being acknowledged. The control number serves as a link between the interchange header and trailer and the acknowledgment of that header and trailer.

The interchange acknowledgment does not report any status on the functional groups contained in the interchange and is separate from the communication system's error procedures.

The preparer of the interchange header and trailer indicates the level of acknowledgment in Data Element 113, Acknowledgment Requested. If an acknowledgment is requested, then the recipient must return an acknowledgment. If not requested, none should be given.

The interchange acknowledgment control segments are placed after the interchange header and before the first functional group or before the interchange trailer if there are no functional groups.

Control segments are standard for all implementation conventions produced for the Department of Defense. Some codes associated with individual data elements within the control segments are unique to the individual transaction set. Others, identify the ANSI version and release in which the convention is written.

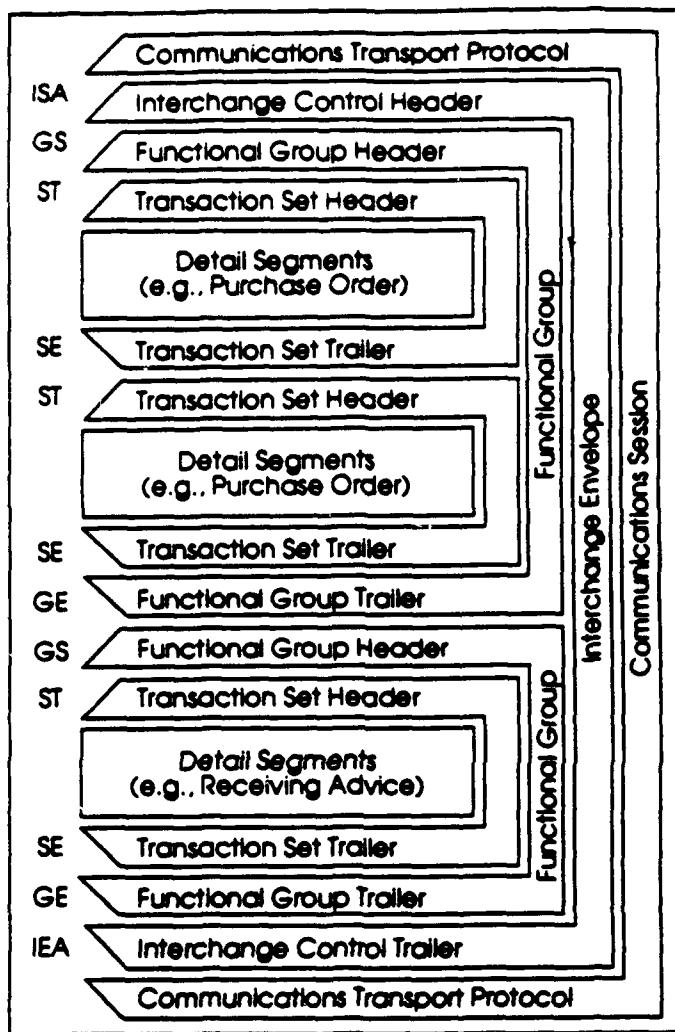


Figure 3.2-1. Hierarchical Structure

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### 3.2.2 Control Segment Specifications

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		<b>Segment: ISA Interchange Control Header</b>			
		<b>Purpose:</b> To start and identify an interchange of one or more functional groups and interchange-related control segments.			
		<b>Data Element Summary</b>			
REF. DES.	DATA ELEMENT	NAME		ATTRIBUTES	
Mandatory	ISA01	I01 Authorization Information Qualifier		M ID	2/2
		Code to identify the type of information in the Authorization Information.			
		00 No Authorization Information Present (No Meaningful Information in I02)			
Mandatory	ISA02	I02 Authorization Information		M AN	10/10
		Information used for additional identification or authorization of the sender or the data in the interchange. The type of information is set by the Authorization Information Qualifier.			
		<b>Implementation Note:</b> <i>If no authorization information is agreed to by trading partners, fill field with blanks.</i>			
Mandatory	ISA03	I03 Security Information Qualifier		M ID	2/2
		Code to identify the type of information in the Security Information.			
		01 Password			
Mandatory	ISA04	I04 Security Information		M AN	10/10
		This is used for identifying the security information about the sender or the data in the interchange. The type of information is set by the Security Information Qualifier.			
		<b>Implementation Note:</b> <i>An agreed upon password. If no security information is agreed to by trading partners, fill field with blanks.</i>			
Mandatory	ISA05	I05 Interchange ID Qualifier		M ID	2/2
		Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified.			
		ZZ Mutually Defined			
		<b>Code Value Implementation Note:</b> <i>An agreed upon designation of DoD Activity Address Code (DoDAAC) or other code coordinated with the value-added network (VAN).</i>			
Mandatory	ISA06	I06 Interchange Sender ID		M ID	15/15
		Identification code published by the sender for other parties to use as the receiver ID to route data to them. The sender always codes this number in the sender ID element.			
		<b>Implementation Note:</b> <i>Department of Defense activities use DoD Activity Address Code (DoDAAC) or other code coordinated with the value-added network (VAN). Non-DoD activities use identification code qualified by ISA05 and coordinated with the VAN.</i>			
Mandatory	ISA07	I05 Interchange ID Qualifier		M ID	2/2
		Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified.			
		ZZ Mutually Defined			

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**001 - CONTROL SEGMENTS  
ISA - INTERCHANGE CONTROL HEADER**

			<b>Code Value Implementation Note:</b> <i>An agreed upon designation of DoD Activity Address Code (DoDAAC) or other code coordinated with the value-added network (VAN).</i>
Mandatory	ISA08	I07	<b>Interchange Receiver ID</b> Identification code published by the receiver of the data. When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them.
			<b>Implementation Note:</b> <i>Department of Defense activities use DoD Activity Address Code (DoDAAC) or other code coordinated with the value-added network (VAN). Non-DoD activities use identification code qualified by ISA05 and coordinated with the VAN.</i>
Mandatory	ISA09	I08	<b>Interchange Date</b> Date of the interchange.
			<b>Implementation Note:</b> <i>Assigned by translation software. YYMMDD</i>
Mandatory	ISA10	I09	<b>Interchange Time</b> Time of the interchange.
			<b>Implementation Note:</b> <i>Assigned by translation software. HHMM</i>
Mandatory	ISA11	I10	<b>Interchange Control Standards Identifier</b> Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer.
			U U.S. EDI Community of ASC X12, TDCC, and UCS
Mandatory	ISA12	I11	<b>Interchange Control Version Number</b> This version number covers the interchange control segments and the functional group control segments.  00303 Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1992
			<b>Code Value Implementation Note:</b> <i>Version ID as defined or agreed upon by the trading partners.</i>
Mandatory	ISA13	I12	<b>Interchange Control Number</b> This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.
Mandatory	ISA14	I13	<b>Acknowledgment Requested</b> Code sent by the sender to request an interchange acknowledgment.
			0 No Acknowledgment Requested 1 Interchange Acknowledgment Requested
Mandatory	ISA15	I14	<b>Test Indicator</b> Code to indicate whether data enclosed by this interchange envelope is test or production.
			P Production Data T Test Data

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		<p><b>Code Value Implementation Note:</b> <i>Assigned by translation software.</i></p>	
Mandatory	ISA16 I15	<p><b>Subelement Separator</b> This is a field reserved for future expansion in separating data element subgroups. (In the interest of a migration to international standards, this should be different from the data element separator).</p> <p><b>Implementation Note:</b> <i>Use character "&lt;".</i></p>	M AN 1/1

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001 - CONTROL SEGMENTS  
GS - FUNCTIONAL GROUP HEADER

**Segment: GS Functional Group Header**

**Purpose:** To indicate the beginning of a functional group and to provide control information

**Syntax:** The data interchange control number (GS06) in this header must be identical to the same data element in the associated Functional Group Trailer (GE02).

**Comment:** A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Mandatory	GS01	479 <b>Functional Identifier Code</b> Code identifying a group of application related Transaction Sets.	M	ID	2/2
<i><b>Implementation Note:</b></i> <i>Choose the code value appropriate to the information content of the functional group. See X12 Dictionary for source code list.</i>					
Mandatory	GS02	142 <b>Application Sender's Code</b> Code identifying party sending transmission. Codes agreed to by trading partners.	M	AN	2/15
<i><b>Implementation Note:</b></i> <i>Department of Defense activities use DoD Activity Address Code (DoDAAC). Non-DoD activities use identification code assigned by DoD activity. For increased security, non-DoD code should differ from that used in ISA06.</i>					
Mandatory	GS03	124 <b>Application Receiver's Code</b> Code identifying party receiving transmission. Codes agreed to by trading partners.	M	AN	2/15
<i><b>Implementation Note:</b></i> <i>Department of Defense activities use DoD Activity Address Code (DoDAAC). Non-DoD activities use identification code assigned by DoD activity. For increased security, non-DoD code should differ from that used in ISA08.</i>					
Mandatory	GS04	373 <b>Date</b> Date sender generated a transaction set.	M	DT	6/6
Mandatory	GS05	337 <b>Time</b> Time expressed in 24-hour clock time.	M	TM	4/6
Mandatory	GS06	28 <b>Group Control Number</b> Assigned number originated and maintained by the sender.	M	NO	1/9
<i><b>Implementation Note:</b></i> <i>Assigned by translation software.</i>					
Mandatory	GS07	455 <b>Responsible Agency Code</b> Code used in conjunction with Data Element 480 to identify the issuer of the standard.	M	ID	1/2
X Accredited Standards Committee X12					

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001 - CONTROL SEGMENTS  
GS - FUNCTIONAL GROUP HEADER

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			<b>Cc ^ Value Implementation Note:</b> <i>Indicates that an ANSI X12 standard is being transmitted.</i>
Mandatory	GS08	480	<b>Version/Release/Industry ID Code</b> M ID 1/12 Code indicating the version, release, subrelease and industry identifier of the EDI standard being used. Positions 1-3, version number; positions 4-6, release and subrelease level of version; positions 7-12, industry or trade association identifier (optionally assigned by user). <b>003030</b> Draft Standards Approved by ASC X12 Through October 1992. <b>Code Value Implementation Note:</b> <i>Code value agreed to by trading partners. See X12 Dictionary for source code list.</i>

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001 - CONTROL SEGMENTS  
GE - FUNCTIONAL GROUP TRAILER

**Segment: GE Functional Group Trailer**

**Purpose:** To indicate the end of a functional group and to provide control information

**Syntax:** The data interchange control number (GE02) in this trailer must be identical to the same data element in the associated Functional Group Header (GS06).

**Comment:** The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

**Data Element Summary**

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
				M	N0	1/6
Mandatory	GE01	97	<b>Number of Transaction Sets Included</b> Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.			
			<b>Implementation Note:</b> <i>Assigned by translation software.</i>			
Mandatory	GE02	28	<b>Group Control Number</b> Assigned number originated and maintained by the sender.			
			<b>Implementation Note:</b> <i>Assigned by the translation software. This control number must match the control number of the preceding GS06 control number.</i>			

**Segment: IEA Interchange Control Trailer**

**Purpose:** To define the end of an interchange of one or more functional groups and interchange-related control segments.

**Data Element Summary**

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
				M	N0	1/5
Mandatory	IEA01	I16	<b>Number of Included Functional Groups</b> A count of the number of functional groups included in a transmission.			
			<b>Implementation Note:</b> <i>Assigned by translation software.</i>			
Mandatory	IEA02	I12	<b>Interchange Control Number</b> This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.			9/9
			<b>Implementation Note:</b> <i>Assigned by the translation software. This control number must match the number that occurs in ISA13.</i>			

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### 3.3 EXAMPLE OF CONVENTION USE

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**EXAMPLE - SPECIFICATIONS/TECHNICAL INFORMATION**  
**841 TRANSACTION SET (SOLICITATION TECHNICAL DOCUMENTATION)**

**ASC X12 EDI FORMAT**

**DEFINITION**

SE\*841\*0001 n/l

This is an 841 transaction set with a control number of 0001.

SPI\*92\*TN\*841STD001\*\*\*\*00\*SD\*02 n/l

The data provided in this transaction set are classified government confidential (Code 92). This is an original transmission (Code 00) of data in support of an RFQ (Code SD) with a transaction set reference number (Code TN) of 841STD001. The data also have a commercial security protection level of company confidential (Code 02).

REF\*KS\*N0001993Q2468 n/l

The solicitation (Code KS) number to which the data in this transaction set pertains is N0001993Q2468.

DTM\*993\*930615 n/l

The date of the solicitation (Code 993) is June 15, 1993.

REF\*TN\*841STD001 n/l

The reference number (Code TN) of this transaction set is 841STD001.

DTM\*097\*930616 n/l

The date of this transaction set (Code 097) is June 16, 1993.

REF\*ZZ\*841RFQ2468 n/l

The unique reference number (Code ZZ) of the transaction set to which the data in this transmission pertain is 841RFQ2468.

DTM\*368\*930616 n/l

The date of the transaction set (Code 368) is June 16, 1993.

N1\*BY\*\*10\*N00019 n/l

The buying activity (Code BY) as specified by DoDAAC (Code 10) N00019.

N1\*SE\*\*33\*B1234 n/l

The selling party (Code SE) as specified by CAGE code (Code 33) B1234.

N1\*DG\*\*10\*N56789 n/l

The configuration manager (Code DG) as specified by the DoDAAC (Code 10) N56789.

PER\*IC\*Nick Nolte\*EM\*EMTEL123 n/l

The point of contact (Code IC) at the buying activity is Nick Nolte. His electronic mail address (Code EM) is EMTEL123.

HL\*1\*\*A\*1 n/l

This is the first iteration of the HL Loop, as specified by the number 1. It has no parent. The hierarchical level is the assembly (Code A). It has subordinate levels.

SPI\*90\*DD\*12E2211-877\*\*\*F n/l

The data being provide is government non-classified (Code 90). It is a Engineering Data List (Code DD) with a reference number of 12E2211-877. It is released for quotation (Code F).

LIN\*\*F7\*FB111A\*FS\*1680010839\*PD\*  
Panel, Ground Check\*ZZ\*FJ n/l

The end item application (Code F7) is FB111A. The NSN (Code FS) is 1680010839. The part number description (Code PD) is Panel, Ground Check. The applicable Data Tech organization code (Code ZZ) is FJ.

N1\*33\*\*10\*N78961 n/l

The Data Tech entity (Code 33) is as specified by DoDAAC (Code 10) N78961.

N1\*ZE\*\*33\*B1234 n/l

The Manufacturer (Code ZE) is as specified by CAGE code (Code 33) B1234.

EFI\*90\*\*\*3.3\*CAT\*3.2\*MCAD\*2.8\*FISH  
\*\*EDL n/l

The data being provided in the BIN segment are government non-classified (Code 90). It was created using an application program known as CAT, Version 3.3. The transfer format used is MCAD, Version 3.2. The file was compressed using the FISH program, Version 2.8. The name of the file containing this data is EDL.

BIN\*28745\* \_\_\_\_ n/l

The binary data transmitted is 28745 octets in length.

HL\*2\*1\*U\*1 n/l

This is the second iteration of the HL Loop as specified by the number 2. Its parent is HL 1. The hierarchical level is the subassembly (Code U). It has subordinate levels (Code 1).

SPI\*92\*DG\*12E2211\*\*\*A\*\*\*02 n/l

Drawing (Code DG) number 12E2211 is classified government confidential (Code 92). It is an approved version (Code A) and has a commercial protection requirement of company confidential (Code 02).

RDT\*E\*AY\*007\*921215 n/l

This is revision (Code E) "AY", with an effective date (Code 007) of December 15, 1992.

LIN\*\*PD\*Panel Assembly n/l

The item description (Code PD) is Panel Assembly.

EFI\*92\*\*9N\*3.3\*TrunkCad\*3.2\*MIL-R-  
28002\*3.3\*TRIM\*AH\*DRAW n/l

The data provided are classified government confidential (Code 92). The security technique is encryption (Code 9N). It was created using an application program known as TrunkCad, Version 3.3. The transfer format used is Raster (MIL-R-28002), Version 3.2. The file was compressed using the TRIM program, Version 3.3. The drawing size to be plotted is 8.5 inches x 11.0 inches (Code AH). The name of the file containing these data is DRAW.

BIN\*105678\* \_\_\_\_ n/l

The binary data transmitted are 105678 octets in length.

HL\*3\*2\*I\*0 n/l

This is the third iteration of the HL Loop as specified by the number 3. Its parent is HL 2. The hierarchical level is the item (Code I). There are no subordinate levels (Code 0).

SPI\*90\*ZZ\*LM12E2211\*Bill of Material  
n/l

The item number being provided (Code ZZ), LM12E2211, is a Bill of Material and is government non-classified (Code 90).

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**EFI\*90\*\*\*3.0\*CAT\*3.2\*MCAD\*2.8\***  
**MOYER\*\*MATL n/l**

The data provided are government non-classified (Code 90). It was created using an application program known as CAT, Version 3.0. The transfer format used is MCAD, Version 3.2. The file was compressed using the Moyer program, Version 2.8. The name of the file containing this data is MATL.

**BIN\*76543\* n/l**

The binary data transmitted are 76543 octets in length.

**ST\*30\*0001**

This transaction set, whose control number is 0001, contains 30 segments.

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### 3.4 DoD CONVENTION

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## 841 Specifications/Technical Information

This Draft Standard for Trial Use contains the format and establishes the data contents of the Specifications/Technical Information Transaction Set (841) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to transmit specifications or technical information between trading partners. It can be used to allow EDI trading partners the ability to exchange a complete or partial technical description of a product, process, service, etc. over the same path as any other EDI transaction. The detail area can include graphic, text, parametric, tabular, image, spectral, or audio data. A transmission includes identification information to assist the receiver in interpreting and utilizing the information included in the transaction.

Further action as a consequence of the receipt and initial processing of the specification or other technical data may or may not require human intervention. The transmission and receipt of the data may require private agreement between the trading partners to automate the receipt of the data.

The total transaction must be in the general form of all ASC X12 transactions so that an EDI computer system will be able to automatically recognize it as a Specification/Technical Information Transaction Set and pass it on for processing of the data itself. The transaction set is not media dependent.

The detail area of the Specification/Technical Information Transaction Set provides a structure which allows for the exchange of a variety of specification information. For example, if the transaction contains information describing a complete assembly, it would be necessary to include the assembly model, the models for each of the individual parts, and the associated specifications. In the case of a process it may be necessary to transmit the specification of the product along with the specifications of the process and raw materials. This transaction set can also be linked to other transaction sets.

This transaction set is not limited to a specific transmission protocol and uses other standards as applicable where they do not conflict with these requirements for specification transaction.

### **Implementation Note**

*This draft implementation convention is designed to provide a prospective bidder with the technical documentation required to submit a bid in response to an 840 transaction set, (Request for Quotation). This 841 transaction set is a companion to an 840 transaction set. The BQT segment at the Header level of the 840 transaction set will tie a solicitation number to the REF segment at the Header level of this 841 transaction set. Reference segments in both transaction sets can contain unique transaction set control numbers to tie the transaction sets together if necessary.*

**Table 1**

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
5	010	ST	Transaction Set Header	M	1	
6	020	<b>LOOP ID - SPI</b>				>1
N/U	030	SPI	Specification Identifier	M	1	
8	040	RDT	Revision Date/Time	O	>1	
N/U	050	NTE	Note/Special Instruction	O	>1	
N/U	060	X1	Export License	O	1	
N/U	070	X2	Import License	O	1	
N/U	080	X7	Customs Information	O	1	
9	090	GOV	Military Standard 1840-A Record Definition	O	>1	
<b>LOOP ID - SPI/REF</b>						>1
		REF	Reference Numbers	O	1	

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10	100	DTM	Date/Time Reference	O	>1
N/U	110	PER	Administrative Communications Contact	O	>1
<b>LOOP ID - SP/N1</b>					
11	120	N1	Name	O	1
12	130	N2	Additional Name Information	O	2
13	140	N3	Address Information	O	2
14	150	N4	Geographic Location	O	1
N/U	160	REF	Reference Numbers	O	>1
15	170	PER	Administrative Communications Contact	O	>1

**Table 2**

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
<b>LOOP ID - HL</b>						
16	010	HL	Hierarchical Level	M	1	
<b>LOOP ID - HL/SPI</b>						
18	020	SPI	Specification Identifier	O	1	
20	030	RDT	Revision Date/Time	O	>1	
22	040	LIN	Item Identification	O	1	
26	045	N1	Name	O	>1	
27	050	MSG	Message Text	O	>1	
<b>LOOP ID - HL/PID</b>						
N/U	060	PID	Product/Item Description	O	1	
N/U	065	PKD	Packaging Description	O	>1	
N/U	070	QTY	Quantity	O	>1	
N/U	074	MEA	Measurements	O	>1	
N/U	075	UIT	Unit Detail	O	>1	
N/U	076	LOC	Location	O	1	
N/U	077	PWK	Paperwork	O	>1	
N/U	078	PKG	Marking, Packaging, Loading	O	1	
N/U	079	MEA	Measurements	O	>1	
<b>LOOP ID - HL/REF</b>						
N/U	080	REF	Reference Numbers	O	1	
N/U	090	DTM	Date/Time Reference	O	>1	
N/U	100	PER	Administrative Communications Contact	O	>1	
<b>LOOP ID - HL/LX</b>						
N/U	109	LX	Assigned Number	O	1	
N/U	110	MEA	Measurements	O	1	
N/U	120	DTM	Date/Time Reference	O	>1	
N/U	130	REF	Reference Numbers	O	>1	
<b>LOOP ID - HL/EFI</b>						
30	140	EFI	Electronic Format Identification	O	1	
N/U	150	GOV	Military Standard 1840-A Record Definition	O	>1	
32	160	BIN	Binary Data	O	>1	
<b>LOOP ID - HL/CID</b>						
N/U	170	CID	Characteristic/Class ID	O	1	
N/U	180	UIT	Unit Detail	O	1	
N/U	190	TMD	Test Method	O	>1	
N/U	200	PSD	Physical Sample Description	O	1	
N/U	201	CSS	Conditional Sampling Sequence	O	1	

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N/U	210	SPS	Sampling Parameters for Summary Statistics	O	1
N/U	220	MSG	Message Text	O	>1
<b>LOOP ID - HL/CID/MEA</b>					
N/U	230	MEA	Measurements	O	1
N/U	240	DTM	Date/Time Reference	O	>1
N/U	250	REF	Reference Numbers	O	>1
<b>LOOP ID - HL/CID/STA</b>					
N/U	260	STA	Statistics	O	1
N/U	270	DTM	Date/Time Reference	O	>1
N/U	280	REF	Reference Numbers	O	>1
<b>LOOP ID - HL/CID/CSF</b>					
N/U	282	CSF	Conditional Sampling Frequency	O	1
N/U	283	LS	Loop Header	O	1
<b>LOOP ID - HL/CID/CSF/CID</b>					
N/U	284	CID	Characteristic/Class ID	O	1
N/U	285	MEA	Measurements	O	1
N/U	286	STA	Statistics	O	1
N/U	287	LE	Loop Trailer	O	1
<b>LOOP ID - HL/CID/EFI</b>					
N/U	290	EFI	Electronic Format Identification	O	1
N/U	300	GOV	Military Standard 1840-A Record Definition	O	>1
N/U	310	BIN	Binary Data	O	>1

**Table 3**

PAGE # POS. #  
28 010

**NOTES:**

- 2/010** To be meaningful, at least one of the SPI, PID, REF, MEA, EFI or CID loops must be present with each occurrence of the HL loop.
- 2/020** The HL segment may be used to define the hierarchical relationship of product-related specifications reported in the associated HL loop. Product-related specifications may refer to the product in its entirety or to subunits of the product. For example, if the top level refers to an assembly, the second-level HL segment may refer to parts or subassemblies of the top assembly. This pattern may be repeated as often as required.
- 2/170** The CID segment may be used to define either a general class of properties, such as physical properties, or an individual property within a class. The CID loop allows the user the ability to define specifications such as the properties of the item or class, the environmental conditions under which the specifications apply, the test methods to be used, and other parameters related to properties within the current HL hierarchical level.
- 2/201** The sampling sequence specified in the CSS segment will take precedence over any other sampling rate (PSD03, PSD09, SPS06, CSF02, and CSF03) from the point the CSS01 event occurs until the specified sequence is completed.
- 2/201** If no other sampling is specified, then only the sampling indicated in this segment is performed when the CSS01 event occurs.

- |  |   |
|--|---|
|  | <p><b>2/282</b> The sampling rate specified is the CSF segment. It would take precedence over the normal sampling rate specified in PSD03 while the conditions of the CSF segment are satisfied, but would NOT take precedence over the sampling sequence activated by the proposed CSS segment.</p> <p><b>2/282</b> If no other sampling rate is specified, then the only sampling indicated in the CSF segment is performed while the CSF conditions are met. Sampling will cease when the conditions are no longer met.</p> <p><b>2/282</b> Conditional values specified in DE 740 (Range Minimum) will be interpreted as "greater than or equal to this value." Values specified in DE 741 (Range Maximum) will be interpreted to mean "less than or equal to this value."</p> <p><b>2/282</b> Repetitions of the CSF loop allow several frequency changes (and the conditions that would trigger those changes) to be specified.</p> <p><b>2/282</b> If the conditions are such that several CSF values are activated at the same time, the value with the highest sampling rate shall prevail.</p> <p><b>2/284</b> Either the MEA segment or the STA segment must occur, but not both.</p> <p><b>2/284</b> The CID loop within the CSF loop is used to specify the conditions that will trigger activation of the conditional value in the CSF segment.</p> <p><b>2/284</b> Repetitions of the CID loop will have an implied logical AND between the conditions set in each iteration.</p> <p><b>2/285</b> The elements of the CID segment identify the conditional property. If the property is a measurement from within the manufacturing process of a plant environment, rather than the product, the segment also identifies the location where the measurements are to be observed.</p> <p><b>2/286</b> If the condition is based on single test measurements, the MEA segment is used to specify the units of measure, and the open or closed numeric range of the conditional test.</p> |
|--|---|

<b>Mandatory</b>	<b>Segment:</b> ST Transaction Set Header <b>Level:</b> Header <b>Loop:</b> _____ <b>Usage:</b> Mandatory <b>Max Use:</b> 1 <b>Purpose:</b> To indicate the start of a transaction set and to assign a control number <b>Semantic:</b> The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

#### Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Mandatory	ST01	<b>143 Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set.  <b>841 X12.51 Specifications/Technical Information</b>	<b>M</b>	<b>ID</b>	<b>3/3</b>
Mandatory	ST02	<b>329 Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	<b>M</b>	<b>AN</b>	<b>4/9</b>

**Implementation Note:**

*This unique number is assigned by the originator of the transaction set or by the originator's application program. This same number is carried in SE02.*

Mandatory	<b>Segment: SPI Specification Identifier</b> <b>Level:</b> Header <b>Loop:</b> SPI <b>Repeat:</b> >1 <b>Usage:</b> Mandatory <b>Max Use:</b> 1 <b>Purpose:</b> To provide a description of the included specification or technical data items.				

#### Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
			M	ID	2/2
Mandatory	SPI01	<b>786 Security Level Code</b> Code indicating the level of confidentiality assigned by the sender to the information following.			
<b>Implementation Notes:</b>					
1. Use any code.					
2. If the data being transmitted have both a government security classification and a commercial security protection requirement, then this data element will carry the government security classification code and the commercial security protection code will be carried in SPI09.					
3. If the data being transmitted have only one protection requirement, then this data element can carry either the government security classification code or the commercial security protection code.					
4. Use this data element to indicate the highest protection level (government or commercial) of the data being provided. Use the SPI segment at the Detail level to indicate the protection level of individual data items.					
Mandatory	SPI02	<b>128 Reference Number Qualifier</b> Code qualifying the Reference Number.			
TN Transaction Reference Number					
<b>Code Value Implementation Note:</b>					
Use Code TN for the unique reference number of this transaction set.					
Mandatory	SPI03	<b>127 Reference Number</b> Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.			
<b>Implementation Note:</b>					
The unique reference number of this transaction set.					
Not Used	SPI04	<b>790 Entity Title</b>			
Not Used	SPI05	<b>791 Entity Purpose</b>			
Not Used	SPI06	<b>792 Entity Status Code</b>			
Required	SPI07	<b>353 Transaction Set Purpose Code</b> Code identifying purpose of transaction set.			
<b>Implementation Note:</b>					
Use any appropriate listed code.					
00 Original					
01 Cancellation					

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**SPI · SPECIFICATION IDENTIFIER**

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		<b>Code Value Implementation Note:</b> Use Code 01 when cancelling an 841 transaction set which is providing solicitation technical documentation. When Code 01 is used, only the HL segment (HL01 and HL03) at the Detail level (Table 2) is needed.	
		<b>02 Add</b> <b>03 Delete</b> <b>04 Change</b>	
Optional	<b>SPI08    755    Report Type Code</b>	<b>O    ID    2/2</b>	
	Code indicating the title or contents of a document, report or supporting item		
	<b>SD    Support Data for a Request for Quote</b>		
<b>Code Value Implementation Note:</b> Use Code SD to indicate this transaction set is providing technical data in support of a request for quotation.			
Optional	<b>SPI09    786    Security Level Code</b>	<b>O    ID    2/2</b>	
	Code indicating the level of confidentiality assigned by the sender to the information following.		
<b>Implementation Notes:</b>			
	1. Use this data element ONLY when SPI01 is Code 90, 92, 93, 94, or 99 and the data item being provided also has a commercial security protection requirement.		
	2. Use this data element to indicate the highest level of commercial security protection assigned to the data being provided. Use the SPI segment at the Detail level to indicate the commercial security protection of individual data items.		
	<b>00 Company Non-Classified</b> <b>01 Company Internal Use Only</b> <b>02 Company Confidential</b> <b>03 Company Confidential, Restricted (Need to Know)</b> <b>04 Company Registered (Signature Required)</b> <b>05 Personal</b> <b>09 Company Defined (Trading Partner Level)</b>		
Not Used	<b>SPI10    559    Agency Qualifier Code</b>	<b>O    ID    2/2</b>	
Not Used	<b>SPI11    916    Code List Reference</b>	<b>O    AN    1/6</b>	
Not Used	<b>SPI12    554    Assigned Number</b>	<b>O    NO    1/6</b>	

Optional

**Segment: NTE Note/Special Instruction**  
**Level:** Header  
**Loop:** SPI  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To transmit information in a free-form format, if necessary, for comment or special instruction  
**Comment:** The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the "NTE" segment should therefore be avoided, if at all possible, in an automated environment.

**Implementation Note:**

*Use this segment to provide information pertinent to the entire transaction set. To provide information relative to a specific data item, use the MSG segment in Table 2.*

**Data Element Summary**

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Optional	NTE01	363	<b>Note Reference Code</b> Code identifying the functional area or purpose for which the note applies.  <b>GEN</b> Entire Transaction Set  <b>Code Value Implementation Note:</b> <i>Use code GEN for any notes that relate to the entire transaction set.</i>	O ID 3/3
Mandatory	NTE02	3	<b>Free Form Message</b> Free-form text.	M AN 1/60

	<b>Segment: REF Reference Numbers</b>								
Required		Level:	Header						
		Loop:	SPI/REF	Repeat:	>1				
		Usage:	Optional						
		Max Use:	1						
		Purpose:	To specify identifying numbers.						
		Syntax:	R0203 — At least one of REF02 or REF03 is required.						
		<b>Implementation Notes:</b>							
		1. At least one REF segment is required using Code KS.							
		2. Additional repetitions of the REF segment may be used to provide other applicable reference numbers.							
	<b>Data Element Summary</b>								
Mandatory		REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES				
	REF01	128	Reference Number Qualifier		M ID 2/2				
			Code qualifying the Reference Number.						
			C4 Change Number						
			<b>Code Value Implementation Note:</b> Use Code C4 for the contract modification number to which the data being provided in this transaction set pertain.						
			CT Contract Number						
			<b>Code Value Implementation Note:</b> Use Code CT to specify the contract number to which the data being provided in this transaction set pertain.						
			KS Solicitation						
			<b>Code Value Implementation Note:</b> Use Code KS to specify the solicitation number to which the data being provided in this transaction set pertain.						
			TN Transaction Reference Number						
			<b>Code Value Implementation Note:</b> Use Code TN for the unique reference number of this transaction set.						
			ZZ Mutually Defined						
			<b>Code Value Implementation Note:</b> Use Code ZZ for the unique reference number of the transaction set to which the data in this transaction set pertain.						
Conditional	REF02	127	Reference Number		C AN 1/30				
			Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.						
Not Used	REF03	352	Description		C AN 1/80				

Optional

**Segment: DTM Date/Time Reference**

**Level:** Header

**Loop:** SPI/REF

**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify pertinent dates and times

**Syntax:** R0203 — At least one of DTM02 or DTM03 is required.

**Data Element Summary**

Mandatory

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
	DTM01	374 Date/Time Qualifier	M	ID	3/3
		Code specifying type of date or time, or both date and time.			
		092 Contract Effective			
		<b>Code Value Implementation Note:</b> When REF01 is Code CT, use Code 092 to indicate the date of the contract specified in REF02.			
		097 Transaction Creation			
		<b>Code Value Implementation Note:</b> When REF01 is Code TN, use Code 097 to indicate the creation date of this transaction set.			
		152 Effective Date of Change			
		<b>Code Value Implementation Note:</b> When REF01 is Code C4, use Code 152 to indicate the effective date of the modification specified in REF02.			
		368 Submittal			
		<b>Code Value Implementation Note:</b> When REF01 is Code ZZ, use Code 368 to indicate the date of the referenced transaction set specified in REF02.			
		993 Request for Quotation			
		<b>Code Value Implementation Note:</b> When REF01 is Code KS, use Code 993 to indicate the date of the solicitation specified in REF02.			
Conditional	DTM02	373 Date Date (YYMMDD).	C	DT	6/6
Not Used	DTM03	337 Time	C	TM	4/6
Not Used	DTM04	623 Time Code	O	ID	2/2
Not Used	DTM05	624 Century	O	NO	2/2

Optional	<b>Segment: N1 Name</b> <b>Level:</b> Header <b>Loop:</b> SPI/N1 <b>Repeat:</b> >1 <b>Usage:</b> Optional <b>Max Use:</b> 1 <b>Purpose:</b> To identify a party by type of organization, name and code <b>Syntax:</b> <ol style="list-style-type: none"> <li>1. R0203 — At least one of N102 or N103 is required.</li> <li>2. P0304 — If either N103 or N104 is present, then the other is required.</li> </ol> <b>Comment:</b> This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.					

**Implementation Note:**

Whenever possible, identification and address information should be provided using N101, N103, and N104. Use N102 and segments N2 through N4 when this information cannot be provided by use of a CAGE code or a DoDAAC.

**Data Element Summary**

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Mandatory	N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, or an individual  <b>BY</b> Buying Party (Purchaser) <b>DG</b> Design Engineering	M	ID	2/2
Conditional	N102	93	<b>Name</b> Free-form name.	C	AN	1/35
Conditional	N103	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67).  <b>10</b> Department of Defense Activity Address Code (DODAAC) <b>33</b> Commercial and Government Entity (CAGE)	C	ID	1/2
Conditional	N104	67	<b>Identification Code</b> Code identifying a party or other code.	C	AN	2/17

Optional

**Segment: N2 Additional Name Information**

**Level:** Header

**Loop:** SPI/N1

**Usage:** Optional

**Max Use:** 2

**Purpose:** To specify additional names or those longer than 35 characters in length

**Implementation Note:**

*This segment is not necessary when the entity cited in N101 is described by use of a CAGE code or a DoDAAC.*

**Data Element Summary**

Mandatory

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
	N201	93      Name Free-form name.	M	AN	1/35

Optional

	N202	93      Name Free-form name.	O	AN	1/35
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Optional	<b>Segment: N3 Address Information</b>					
		Level:	Header			
		Loop:	SPI/N1			
		Usage:	Optional			
		Max Use:	2			
		Purpose:	To specify the location of the named party			
<i>Implementation Note:</i> <i>This segment is not necessary when the entity cited in N101 is described by use of a CAGE code or a DoDAAC.</i>						
<b>Data Element Summary</b>						
	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Mandatory	N301	166	<b>Address Information</b> Address information	M AN 1/35		
Optional	N302	166	<b>Address Information</b> Address information	O AN 1/35		

Optional	<b>Segment: N4 Geographic Location</b> Level: Header Loop: SPI/N1 Usage: Optional <b>Max Use:</b> 1 <b>Purpose:</b> To specify the geographic place of the named party <b>Syntax:</b> <ol style="list-style-type: none"> <li>1. R0105 — At least one of N401 or N405 is required.</li> <li>2. P0506 — If either N405 or N406 is present, then the other is required.</li> </ol> <b>Comments:</b> <ol style="list-style-type: none"> <li>1. A combination of either N401 through N404 (or N405 and N406) may be adequate to specify a location.</li> <li>2. N402 is required only if city name (N401) is in the USA or Canada.</li> </ol>					
	<i><b>Implementation Note:</b></i> <i>This segment is not necessary when the entity cited in N101 is described by use of a CAGE code or a DoDAAC.</i>					
	<b>Data Element Summary</b>					
	REF. DES.	DATA ELEMENT	NAME			ATTRIBUTES
	N401	19	<b>City Name</b> Free-form text for city name.			C AN 2/30
	N402	156	<b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency.			O ID 2/2

Conditional	Optional	Optional	Optional	Conditional	Conditional	<b>NAME</b> <b>REF. DES.</b> <b>DATA ELEMENT</b> <b>ATTRIBUTES</b>		
N401	19	<b>City Name</b> Free-form text for city name.			C AN 2/30			
N402	156	<b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency.			O ID 2/2			
N403	116	<b>Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States).			O ID 3/9			
N404	26	<b>Country Code</b> Code identifying the country.			O ID 2/3			
N405	309	<b>Location Qualifier</b> Code identifying type of location.			C ID 1/2			
N406	310	<b>Location Identifier</b> Code which identifies a specific location.			C AN 1/25			

<b>Optional</b>	<p><b>Segment: PER Administrative Communications Contact</b></p> <p><b>Level:</b> Header</p> <p><b>Loop:</b> SPI/N1</p> <p><b>Usage:</b> Optional</p> <p><b>Max Use:</b> &gt;1</p> <p><b>Purpose:</b> To identify a person or office to whom administrative communications should be directed</p> <p><b>Syntax:</b></p> <ol style="list-style-type: none"> <li>1. P0304 — If either PER03 or PER04 is present, then the other is required.</li> <li>2. P0506 — If either PER05 or PER06 is present, then the other is required.</li> </ol>
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**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME		ATTRIBUTES	
<b>Mandatory</b>	<b>PER01</b>	<b>366</b> <b>Contact Function Code</b> Code identifying the major duty or responsibility of the person or group named.		<b>M</b>	<b>ID</b> 2/2
		<b>IC</b> Information Contact			
		<b>Code Value Implementation Note:</b> <i>Use Code IC for the information point of contact within the originator's organization.</i>			
<b>Optional</b>	<b>PER02</b>	<b>93</b> <b>Name</b> Free-form name.		<b>O</b>	<b>AN</b> 1/35
		<b>Implementation Note:</b> <i>Use to provide the name of the information point of contact.</i>			
<b>Conditional</b>	<b>PER03</b>	<b>365</b> <b>Communication Number Qualifier</b> Code identifying the type of communication number.		<b>C</b>	<b>ID</b> 2/2
		<b>Implementation Note:</b> <i>Use any appropriate listed code, although Code EM is preferred.</i>			
		EM Electronic Mail FX Facsimile TE Telephone TM Telemail			
<b>Conditional</b>	<b>PER04</b>	<b>364</b> <b>Communication Number</b> Complete communications number including country or area code when applicable.		<b>C</b>	<b>AN</b> 1/25
<b>Conditional</b>	<b>PER05</b>	<b>365</b> <b>Communication Number Qualifier</b> Code identifying the type of communication number.		<b>C</b>	<b>ID</b> 2/2
<b>Conditional</b>	<b>PER06</b>	<b>364</b> <b>Communication Number</b> Complete communications number including country or area code when applicable.		<b>C</b>	<b>AN</b> 1/25

Mandatory	<b>Segment: HL Hierarchical Level</b> <b>Level:</b> Detail <b>Loop:</b> HL <b>Repeat:</b> >1 <b>Usage:</b> Mandatory <b>Max Use:</b> 1 <b>Purpose:</b> To identify dependencies among and the content of hierarchically related groups of data segments. <b>Comments:</b> <ol style="list-style-type: none"> <li>1. The HL Segment is used to identify levels of detail information using a Hierarchical Structure, such as relating line item data to shipment data, and packaging data to line item data.</li> <li>2. The HL segment defines a top-down/left-right ordered structure.</li> <li>3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment, and would be incremented by one in each subsequent HL segment within the transaction.</li> <li>4. HL02 identifies the Hierarchical ID Number of the HL segment to which the current HL segment is subordinate.</li> <li>5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order or item level information.</li> <li>6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.</li> </ol> <b>Implementation Notes:</b> <ol style="list-style-type: none"> <li>1. The HL loop can be used to transmit a single item of technical information or multiple items that may or may not have a hierarchical relationship.</li> <li>2. When providing a single item of technical information, only one iteration of the HL loop is necessary.</li> <li>3. When transmitting multiple items that may or may not have a hierarchical relationship, repeat the HL loop as many times as required to specify all levels and use as many iterations of the HL/SPI loop as necessary.</li> <li>4. When SPI07 is Code 01, the only entries in the Detail level (Table 2) are in HL01 and HL03.</li> </ol>										
	<b>Data Element Summary</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">REF. DES.</th> <th style="text-align: left;">DATA ELEMENT</th> <th style="text-align: left;">NAME</th> <th style="text-align: right;">ATTRIBUTES</th> </tr> </thead> <tbody> <tr> <td>Mandatory</td> <td>HL01</td> <td>628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.</td> <td style="text-align: right;">M AN 1/12</td> </tr> </tbody> </table>				REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES	Mandatory	HL01	628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.
REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES								
Mandatory	HL01	628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.	M AN 1/12								

		<b>Implementation Note:</b> <i>This unique and progressive number is assigned by the originator of the transaction set starting with the number 1.</i>							
Optional	HL02	734	<b>Hierarchical Parent ID Number</b>	O	AN 1/12				
Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.									
		<b>Implementation Note:</b> <i>This data element is used only when providing multiple items of technical information that have a hierarchical relationship.</i>							
Mandatory	HL03	735	<b>Hierarchical Level Code</b>	M	ID 1/2				
Code defining the characteristic of a level in a hierarchical structure.									
		<b>Implementation Note:</b> <i>Use any appropriate listed code to indicate the hierarchical relationship of the data provided.</i>							
<ul style="list-style-type: none"> <li>A Assembly</li> <li>F Component</li> <li>I Item</li> </ul>									
<b>Code Value Implementation Note:</b> <i>Use Code I as the default code when no other code is applicable.</i>									
<ul style="list-style-type: none"> <li>SY System</li> <li>U Subassembly</li> <li>ZZ Mutually Defined</li> </ul>									
<b>Code Value Implementation Note:</b> <i>Use Code ZZ only when SPI07 is Code 01. This is required to comply with the mandatory nature of this data element.</i>									
Optional	HL04	736	<b>Hierarchical Child Code</b>	O	ID 1/1				
Code indicating whether if there are hierarchical child data segments subordinate to the level being described.									
		<b>Implementation Note:</b> <i>When providing single or multiple specifications/technical information that have no hierarchical relationship, no entry is required.</i>							
<ul style="list-style-type: none"> <li>0 No Subordinate HL Segment in This Hierarchical Structure.</li> </ul>									
<b>Code Value Implementation Note:</b> <i>Use Code 0 to indicate the lowest level in the hierarchical relationship.</i>									
<ul style="list-style-type: none"> <li>1 Additional Subordinate HL Data Segment in This Hierarchical Structure.</li> </ul>									
<b>Code Value Implementation Note:</b> <i>Use Code I to indicate there are lower level items in this hierarchical relationship.</i>									

Optional	<b>Segment: SPI Specification Identifier</b> <b>Level:</b> Detail <b>Loop:</b> HL/SPI <b>Repeat:</b> >1 <b>Usage:</b> Optional <b>Max Use:</b> 1 <b>Purpose:</b> To provide a description of the included specification or technical data items.				

#### Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Mandatory	SPI01	786	<b>Security Level Code</b> Code indicating the level of confidentiality assigned by the sender to the information following.	M	ID	2/2
			<b>Implementation Notes:</b>			
			1. Use any code.			
			2. If the data item being transmitted has both a government security classification and a commercial security protection requirement, then this data element will carry the government security classification code and the commercial security protection code will be carried in SPI09.			
			3. If the data item being transmitted has only one protection requirement, then this data element can carry either the government security classification code or the commercial security protection code.			
Mandatory	SPI02	128	<b>Reference Number Qualifier</b> Code qualifying the Reference Number.	M	ID	2/2
			<b>Implementation Note:</b>			
			Any code can be used but typically used codes include:			
			DD Document Identification Code			
			<b>Code Value Implementation Note:</b>			
			Use Code DD for the reference number of an Engineering Data List.			
			DG Drawing Number			
			QC Product Specification Document Number			
			S1 Engineering Specification Number			
			S2 Military Specification Number (MILSPEC)			
			S3 Specification Number			
			TP Test Specification Number			
			W9 Special Packaging Instruction Number			
			ZZ Mutually Defined			
			<b>Code Value Implementation Note:</b>			
			Use Code ZZ for another type of reference number and identify that number in SPI04.			
Mandatory	SPI03	127	<b>Reference Number</b> Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	M	AN	1/30
Optional	SPI04	790	<b>Entity Title</b> Title of the data entity.	O	AN	1/132

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		<b>Implementation Note:</b> When SPI02 is Code ZZ, identify the reference number cited in SPI03.			
Not Used	SPI05	791	<b>Entity Purpose</b>	O	AN 1/80
Optional	SPI06	792	<b>Entity Status Code</b> Code indicating the current status of the data item specified by the electronic data item.	O	ID 1/1
		<b>Implementation Note:</b> Use any code.			
		<b>Z</b> Mutually Defined			
		<b>Code Value Implementation Note:</b> Use Code Z for another entity status condition and explain in the MSG segment.			
Not Used	SPI07	353	<b>Transaction Set Purpose Code</b>	O	ID 2/2
Not Used	SPI08	755	<b>Report Type Code</b>	O	ID 2/2
Optional	SPI09	786	<b>Security Level Code</b> Code indicating the level of confidentiality assigned by the sender to the information following.	O	ID 2/2
		<b>Implementation Note:</b> Use this data element ONLY when SPI01 is Code 90, 92, 93, 94, or 99 and the data item being provided also has a commercial security protection requirement.			
		00 Company Non-Classified 01 Company Internal Use Only 02 Company Confidential 03 Company Confidential, Restricted (Need to Know) 04 Company Registered (Signature Required) 05 Personal 09 Company Defined (Trading Partner Level)			
Not Used	SPI10	559	<b>Agency Qualifier Code</b>	O	ID 2/2
Not Used	SPI11	916	<b>Code List Reference</b>	O	AN 1/6
Not Used	SPI12	554	<b>Assigned Number</b>	O	NO 1/6

Optional	<b>Segment: RDT Revision Date/Time</b> <b>Level:</b> Detail <b>Loop:</b> HL/SPI <b>Usage:</b> Optional <b>Max Use:</b> >1 <b>Purpose:</b> To specify the revision level of the electronic data item. <b>Syntax:</b> <ol style="list-style-type: none"> <li>1. C0102 — If RDT01 is present, then RDT02 is required.</li> <li>2. L030405 — If RDT03 is present, then at least one of RDT04 or RDT05 are required.</li> <li>3. C0605 — If RDT06 is present, then RDT05 is required.</li> </ol>			

**Implementation Note:**

*Use this segment to specify the change, revision or version of the specification/technical information being provided.*

**Data Element Summary**

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Optional	RDT01	795	<b>Revision Level Code</b> Code indicating the revision or engineering change level of the data items referred to by the specification number.	O	ID	1/1
			A Change Level E Revision Level H Version Level			
Conditional	RDT02	796	<b>Revision Value</b> Revision or engineering change level of the data items referred to by the specification number.	C	AN	1/30
			<b>Implementation Notes:</b>			
			1. When RDT01 is Code A or Code E, use to enter the change or revision number/letter.			
			2. When RDT01 is Code H, specify the version being transmitted, e.g., "As-Built" or "As-Shipped".			
Optional	RDT03	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time.	O	ID	3/3
			007 Effective			
			<b>Code Value Implementation Note:</b>			
			<i>Use Code 007 to specify the change, revision, or version date.</i>			
Conditional	RDT04	373	<b>Date</b> Date (YYMMDD).	C	DT	6/6
			<b>Implementation Note:</b>			
			<i>Enter the date of the change, revision, or version being transmitted in this transaction set.</i>			
Not Used	RDT05	337	<b>Time</b>	C	TM	4/6
Not Used	RDT06	623	<b>Time Code</b>	O	ID	2/2

Optional

**Segment: LIN Item Identification**

Level: Detail

Loop: HL/SPI

Usage: Optional

Max Use: 1

Purpose: To specify basic item identification data.

1. C0405 — If LIN04 is present, then LIN05 is required.
2. C0607 — If LIN06 is present, then LIN07 is required.
3. C0809 — If LIN08 is present, then LIN09 is required.
4. C1011 — If LIN10 is present, then LIN11 is required.
5. C1213 — If LIN12 is present, then LIN13 is required.
6. C1415 — If LIN14 is present, then LIN15 is required.
7. C1617 — If LIN16 is present, then LIN17 is required.
8. C1819 — If LIN18 is present, then LIN19 is required.
9. C2021 — If LIN20 is present, then LIN21 is required.
10. C2223 — If LIN22 is present, then LIN23 is required.
11. C2425 — If LIN24 is present, then LIN25 is required.
12. C2627 — If LIN26 is present, then LIN27 is required.
13. C2829 — If LIN28 is present, then LIN29 is required.
14. C3031 — If LIN30 is present, then LIN31 is required.

Semantic: LIN01 is the line item identification

- Comments:
1. See the Data Dictionary for a complete list of ID's.
  2. LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

**Implementation Notes:**

1. Use this segment to transmit information relative to the data item identified in SPI03, e.g., national stock number (NSN), part number, item description, etc..

2. LIN02 through LIN31 are used in pairs (i.e., LIN02 and LIN03) as required to carry additional information about the specific data item identified in SPI03.

**Data Element Summary**

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Not Used	LIN01	350	Assigned Identification	O	AN	1/11
Mandatory	LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234).	M	ID	2/2
F7 End-Item Description						

			<b>Code Value Implementation Note:</b> <i>Use Code FS for the application reference from an Engineering Data List.</i>	
			FS National Stock Number	
			<b>Code Value Implementation Note:</b> <i>Use Code FS for the National Stock Number.</i>	
			IN Buyer's Item Number	
			<b>Code Value Implementation Note:</b> <i>Use Code IN for the CLIN or SUBCLIN.</i>	
			MG Manufacturer's Part Number	
			<b>Code Value Implementation Note:</b> <i>Use Code MG for a manufacturer's part number.</i>	
			PD Part Number Description	
			<b>Code Value Implementation Note:</b> <i>Use Code PD for the noun description from an Engineering Data List.</i>	
			ZZ Mutually Defined	
			<b>Code Value Implementation Note:</b> <i>Use Code ZZ for the Data Tech organization.</i>	
Mandatory	LIN03	234	<b>Product/Service ID</b> Identifying number for a product or service.	M AN 1/30
Optional	LIN04	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
Conditional	LIN05	234	<b>Product/Service ID</b> Identifying number for a product or service.	C AN 1/30
Optional	LIN06	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
Conditional	LIN07	234	<b>Product/Service ID</b> Identifying number for a product or service.	C AN 1/30
Optional	LIN08	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
Conditional	LIN09	234	<b>Product/Service ID</b> Identifying number for a product or service.	C AN 1/30
Optional	LIN10	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
Conditional	LIN11	234	<b>Product/Service ID</b> Identifying number for a product or service.	C AN 1/30
Optional	LIN12	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O ID 2/2
Conditional	LIN13	234	<b>Product/Service ID</b>	C AN 1/30

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Optional	LIN14	235	Identifying number for a product or service. <b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2	
Conditional	LIN15	234	Identifying number for a product or service. <b>Product/Service ID</b>	C	AN	1/30	
Optional	LIN16	235	Identifying number for a product or service. <b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2	
Conditional	LIN17	234	Identifying number for a product or service. <b>Product/Service ID</b>	C	AN	1/30	
Optional	LIN18	235	Identifying number for a product or service. <b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2	
Conditional	LIN19	234	Identifying number for a product or service. <b>Product/Service ID</b>	C	AN	1/30	
Optional	LIN20	235	Identifying number for a product or service. <b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2	
Conditional	LIN21	234	Identifying number for a product or service. <b>Product/Service ID</b>	C	AN	1/30	
Optional	LIN22	235	Identifying number for a product or service. <b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2	
Conditional	LIN23	234	Identifying number for a product or service. <b>Product/Service ID</b>	C	AN	1/30	
Optional	LIN24	235	Identifying number for a product or service. <b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2	
Conditional	LIN25	234	Identifying number for a product or service. <b>Product/Service ID</b>	C	AN	1/30	
Optional	LIN26	235	Identifying number for a product or service. <b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2	
Conditional	LIN27	234	Identifying number for a product or service. <b>Product/Service ID</b>	C	AN	1/30	
Optional	LIN28	235	Identifying number for a product or service. <b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2	
Conditional	LIN29	234	Identifying number for a product or service. <b>Product/Service ID</b>	C	AN	1/30	

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Optional	LIN30	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234).	O	ID	2/2
Conditional	LIN31	234	<b>Product/Service ID</b> Identifying number for a product or service.	C	AN	1/30

Optional	<b>Segment:</b> N1 Name
	<b>Level:</b> Detail
	<b>Loop:</b> HL/SPI
	<b>Usage:</b> Optional
	<b>Max Use:</b> >1
	<p><b>Purpose:</b> To identify a party by type of organization, name and code</p> <p><b>Syntax:</b> 1. R0203 — At least one of N102 or N103 is required.</p> <p>2. P0304 — If either N103 or N104 is present, then the other is required.</p> <p><b>Comment:</b> This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.</p>

**Data Element Summary**

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, or an individual.	M ID 2/2
		33	Inquiry Address	
			<b>Code Value Implementation Note:</b> <i>Use Code 33 to identify a Data Tech entity from an Engineering Data List.</i>	
		ZE	End Item Manufacturer	
			<b>Code Value Implementation Note:</b> <i>Use Code ZE to identify the manufacturer from an Engineering Data List.</i>	
Conditional	N102	93	<b>Name</b> Free-form name.	C AN 1/35
Conditional	N103	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67).	C ID 1/2
		10	Department of Defense Activity Address Code (DODAAC)	
		33	Commercial and Government Entity (CAGE)	
Conditional	N104	67	<b>Identification Code</b> Code identifying a party or other code.	C AN 2/17

Optional	<b>Segment: MSG Message Text</b>				
	Level:	Detail			
	Loop:	HL/SPI			
	Usage:	Optional			
	Max Use:	>1			
	Purpose:	To provide a free form format that would allow the transmission of text information.			
	Comment:	MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.			
	<i>Implementation Notes:</i>				
	1. Use this segment to transmit information relative to a specific data item.				
	2. Maximum use is 3.				

**Data Element Summary**

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
				M	AN	1/264
Mandatory	MSG01	933	Free-Form Message Text Free-form message text.			
Not Used	MSG02	934	Printer Carriage Control Code	O	ID	2/2

<b>Optional</b>	<p><b>Segment: EFI Electronic Format Identification</b></p> <p><b>Level:</b> Detail</p> <p><b>Loop:</b> HL/EFI <b>Repeat:</b> &gt;1</p> <p><b>Usage:</b> Optional</p> <p><b>Max Use:</b> 1</p> <p><b>Purpose:</b> To provide basic information about the electronic format of the interchange data.</p> <p><b>Syntax:</b></p> <ol style="list-style-type: none"> <li>1. C0504 — If EFI05 is present, then EFI04 is required.</li> <li>2. C0706 — If EFI07 is present, then EFI06 is required.</li> <li>3. C0908 — If EFI09 is present, then EFI08 is required.</li> </ol> <p><b>Implementation Note:</b> <i>Maximum use is 1 for each HL.</i></p>					
	<b>Data Element Summary</b>					
	<b>REF. DES.</b>	<b>DATA ELEMENT</b>	<b>NAME</b>			
	Mandatory	EFI01	786	<b>Security Level Code</b> Code indicating the level of confidentiality assigned by the sender to the information following.		
	<b>Implementation Notes:</b>				M	ID 2/2
	<ol style="list-style-type: none"> <li>1. Use any appropriate code.</li> <li>2. The security level code specified here relates to the specific binary data provided in the BIN segment.</li> <li>3. The security code provided for the binary data being transmitted in the BIN segment is the highest protection level assigned to the data. If the data have both a government security classification and a commercial security protection requirement, the government security classification takes precedence and shall be provided in this data element.</li> </ol>					
<b>Optional</b>	EFI02	933	<b>Free-Form Message Text</b> Free-form message text.			O AN 1/264
	<b>Implementation Note:</b> <i>Use only if necessary to transmit a short remark or note about the binary information being transmitted in this transaction set.</i>					
<b>Optional</b>	EFI03	797	<b>Security Technique Code</b> Code indicating that this element will be used to tell an EDI translator program which security technique to use.			O ID 2/2
	<b>Implementation Note:</b> <i>Use any code.</i>					
<b>Conditional</b>	EFI04	799	<b>Version Identifier</b> Revision level of a particular format, program, technique or algorithm.			C AN 1/30
	<b>Implementation Note:</b> <i>Use to specify the version, e.g., 2.0, 3.2, etc., of the program being used to transmit the data in the following BIN segment. This data element pertains to the program identifier specified in EFI05.</i>					
<b>Optional</b>	EFI05	802	<b>Program Identifier</b>			O AN 1/30

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		Identifies the name of the software program from which the technical data originates.
		<b>Implementation Note:</b> <i>Use to specify the application software program used to create the data being transmitted in the following BIN segment, e.g., TruckCad, Class8Cad, etc.</i>
Conditional	<b>EFI06 799 Version Identifier</b>	C AN 1/30 Revision level of a particular format, program, technique or algorithm.
		<b>Implementation Note:</b> <i>Use to identify the specific version of the interchange standard used to transmit the data in the following BIN segment. This data element pertains to the interchange format specified in EFI07.</i>
Optional	<b>EFI07 801 Interchange Format</b>	O AN 1/30 Industry or proprietary standard used to identify the format of the data.
		<b>Implementation Note:</b> <i>Use to enter the specification number or description of the version noted in EFI06. Examples include MIL-D-28000 for IGES and MIL-R-28002 for Raster.</i>
Conditional	<b>EFI08 799 Version Identifier</b>	C AN 1/30 Revision level of a particular format, program, technique or algorithm.
		<b>Implementation Note:</b> <i>Use to identify the version of the program used to compress the data transmitted in the following BIN segment. This data element pertains to the compression technique program specified in EFI09.</i>
Optional	<b>EFI09 800 Compression Technique</b>	O AN 1/30 Identifies the digital data compression means and the type.
		<b>Implementation Note:</b> <i>Use to identify the compression method, if any, applied to the data transmitted in the following BIN segment. Examples include TR, Moyer, Fish, etc.</i>
Optional	<b>EFI10 789 Drawing Sheet Size Code</b>	O ID 2/2 Code indicating the drawing size and orientation of a technical drawing as specified and described in the current version of standards ANSI Y14.1 and ISO 5457 (E). See the listed ANSI and ISO standards for the maximum lengths for rolled sheets.*
		<b>Implementation Notes:</b> 1. Use to specify the drawing sheet size if the data transmitted in the BIN segment are to be presented in a hard copy as well as stored in the receiver's system. 2. Use any code.
Optional	<b>EFI11 803 File Name</b>	O AN 1/64 Name assigned or declared for a file or used by a program to identify a file. Exact format of the name depends on the computer operating system being used. Name also may be known as the file's "data set name".
		<b>Implementation Note:</b> <i>Use to enter the file name of the data to be transmitted.</i>
Not Used	<b>EFI12 804 Block Type</b>	O AN 1/4
Not Used	<b>EFI13 787 Record Length</b>	O N 1/15
Not Used	<b>EFI14 788 Block Length</b>	O N 1/5

Optional	<b>Segment: BIN Binary Data</b>			
	Level:	Detail		
	Loop:	HL/EFI		
	Usage:	Optional		
	Max Use:	>1		
	Purpose:	To transfer binary data in a single data segment and to allow identification of the end of the data segment through a count. There is no identification of the internal structure of the binary data in this segment.		

**Data Element Summary**

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
				M	N	O
Mandatory	BIN01	784	<b>Length of Binary Data</b> The length in integral octets of the binary data.			1/15
Mandatory	BIN02	785	<b>Binary Data</b> A string of octets which can assume any binary pattern from hexadecimal 00 to FF.	M	B	1/10

**Mandatory**

**Segment:** SE Transaction Set Trailer  
**Level:** Summary  
**Loop:** \_\_\_\_\_  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).  
**Comment:** SE is the last segment of each transaction set.

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	SE01	<b>Number of Included Segments</b> Total number of segments included in a transaction set including ST and SE segments.	M NO 1/10
Mandatory	SE02	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

**Implementation Note:**

*Enter the same number as carried in ST02.*

## 4.0 ASC X 12 FORMS

In this chapter, applicable ASC X12 forms are presented.

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## ASC X12 WORK REQUEST FORM

### SUBMITTER INSTRUCTIONS

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**NOTE: ALL REQUESTS MUST BE TYPED OR PRINTED LEGIBLY IN BLACK INK.  
INCOMPLETE OR ILLEGIBLE WORK REQUESTS WILL BE RETURNED TO THE  
SUBMITTER.**

Submit completed forms to: Technical Department, ASC X12 Secretariat, Data Interchange Standards Association, Inc., 1800 Diagonal Road, Suite 355, Alexandria, VA 22314-2852 or FAX (703) 548-5738. Submitters are notified of the status of the work request after it has been reviewed by X12J Technical Assessment Subcommittee.

1. **TO USE THIS FORM TO REQUEST A CHANGE TO AN EXISTING STANDARD(S), use ONE Work Request (WR) Form to list all changes needed to meet one BUSINESS REASON. Otherwise use multiple forms. If more space is necessary, numbered attachments may be used for continuation.**
2. **TO USE THIS FORM FOR SUPPORTING DATA MAINTENANCE FOR A NEW DRAFT STANDARD, list all information on ONE form; use attachments as necessary. List first all new segments, then all new data elements/codes/code sources. Then list revisions to existing segments and data elements/codes/code sources; provide a business case for revisions to existing standards. Then list any other changes needed (e.g., X12.5, X12.6), including justification.**
3. **TO USE THIS FORM TO REQUEST A PROPOSED NEW X12 STANDARDS PROJECT, provide the business need and justification for the new project in Part D. The WR will be referred to an X12 subcommittee for analysis.**

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#### **ADDITIONAL INFORMATION FOR COMPLETING THIS FORM:**

**PART A: SUBMITTER INFORMATION:** The WR may represent the position of an individual, industry group, work group, X12 subgroup, etc. If the WR represents the position of an X12 subcommittee-related work group, the subcommittee chair must initial the WR.

**PART B: REFERENCE USED:** Indicate the version/release or edition of the standard you are using as a reference.

**PART C: RAMIFICATIONS:** List affected transaction sets, segments and data elements, or other standards. For a control standard, name the affected page and section number.

**PART D: BUSINESS CASE/REASON FOR CHANGE:** Provide a complete scenario that describes the business function/operation that will be satisfied by a change to the standard. Be specific, because this information will appear in the X12 membership ballot package and will be the only information that members have on which to base their vote. X12J Technical Assessment Subcommittee requires enough information to be able to propose an alternate solution to the one provided, if necessary.

**PART E: PROPOSED WORK:** List the specific changes being requested. Give the names and associated identifiers of the standards segments, data elements and codes affected by the changes. Definitions for new codes and for industry-specific terms must be complete. For new codes, provide a proposed code and a code definition. RULES: (1) Acronyms/abbreviations cannot be added to the standards—they must be spelled out. (2) Provide an expanded code definition for each code that is not completely self explanatory, that is, terms that are not in general business use or that are industry specific. (3) Provide code source references for all externally published (non-X12) code lists cited (use the Form for New or Revised Code Source Reference, page 2 of the form).

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Rev 9/14/92

Date Submitted \_\_\_\_\_

(Submitter Provide)

DM NUMBER \_\_\_\_\_

(Secretary Only)

**ASC X12**

**WORK REQUEST FORM**

**A. SUBMITTER INFORMATION:**

Submitter Name \_\_\_\_\_ Company \_\_\_\_\_

Address \_\_\_\_\_ Address/ZIP \_\_\_\_\_ ZIP +4 \_\_\_\_\_

Phone \_\_\_\_\_

Submission represents the position of: \_\_\_\_\_ SC Chair Initials: \_\_\_\_\_

**B. REFERENCE USED:** Version \_\_\_\_\_ /Release \_\_\_\_\_ /Subrelease \_\_\_\_\_ or Workbook (date) \_\_\_\_\_

**C. RAMIFICATIONS:**

Transaction Set(s) Used \_\_\_\_\_

Segment(s) Affected \_\_\_\_\_

Data Element(s) Affected \_\_\_\_\_

Other Standard(s) \_\_\_\_\_

**D. BUSINESS CASE/REASON FOR CHANGE:**

**E. PROPOSED WORK:**

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WR Form Page Two

DM NUMBER \_\_\_\_\_  
(Secretary Only)

## FORM FOR NEW OR REVISED CODE SOURCE REFERENCE FOR X12.3 DATA ELEMENT DICTIONARY

**INSTRUCTIONS:** Complete this form whenever a new data element or data element code is requested to be added to Appendix A of X12.3 Data Element Dictionary, which references a code list published by an organization external to X12. Use one form for each new reference. This form may be used to revise current references; fill out the appropriate areas below.

**PART 1: REFERENCE** Circle 1 or 2 below. If 2, fill in the blank.

(1) NEW REFERENCE

(2) REVISED REFERENCE, Current reference number/name \_\_\_\_\_

**PART 2: REFERENCE TITLE** If there is only one source for codes for the data element, the title should be the same as the data element name. If there are multiple codes referencing external code sources for the same data element, title should approximate the code definition.

REFERENCE TITLE:

**PART 3: DATA ELEMENTS USED IN** Give the data element reference number and name which directs the user to this code source. Give the code ID (if assigned) if this is for a specific code of the data element.

USED IN: DE No. \_\_\_\_\_, Code ID \_\_\_\_\_

**PART 4: SOURCE** Provide the name of the publication which contains the codes referenced.

PUBLISHED IN:

**PART 5: AVAILABLE FROM** Give the publisher, or other contact, from whom the user can obtain the document.

AVAILABLE: Name/Attn of \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_  
Address \_\_\_\_\_  
Address/ZIP \_\_\_\_\_ /ZIP + 4 \_\_\_\_\_

**PART 6: ABSTRACT** Briefly describe the publication, its purpose, and indicate what codes it contains.

ABSTRACT:

**DEPARTMENT OF DEFENSE  
DRAFT IMPLEMENTATION CONVENTION**

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## 5.0 GLOSSARY

This chapter contains ASC X12- and DoD-specific glossaries.

### 5.1 X12 GLOSSARY

#### **ANSI**

American National Standards Institute

#### **ANSI Standard**

A document published by ANSI that has been approved through the consensus process of public announcement and review. Each such standards must have been developed by an ANSI committee and must be revisited by that committee within 5 years for updating. See Draft Standard for Trial Use (DSTU).

#### **Area Transaction Set**

A predefined area within a transaction set (header, detail, summary) containing segments and their various attributes.

#### **ASC X12**

Accredited Standards Committee, X12. It comprises industry members who create electronic data interchange (EDI) standards for submission to ANSI for subsequent approval and dissemination.

#### **Authentication**

A mechanism that allows the receiver of an electronic transmission to verify the sender and the integrity of the content of the transmission through the use of an electronic "key" or algorithm shared by the trading partners. That algorithm is sometimes referred to as an electronic signature.

#### **Compliance Checking**

A checking process that is used to ensure that a transmission complies with ANSI X12 syntax rules.

#### **Conditional (C)**

A data element requirement designator that indicates that the presence of a specified data element is dependent on the value or presence of other data elements in the segment. The condition must be stated and must be computer processable.

#### **Control Segment**

A segment that has the same structure as a data segment but is used for transferring control information for grouping data segments. Control segments may be loop control segments (LS/LE), transaction set control segments (ST/SE), or functional group control segments (GS/GE), defined in X12.6, or interchange control segments (ISA/IEA/TA1) defined in X12.5.

**Data Element**

The basic unit of information in the EDI standards containing a set of values that represent a singular fact. It may be single-character codes, literal descriptions, or numeric values.

**Data Element Length**

The range, minimum to maximum, of the number of character positions available to represent the value of a data element. A data element may be of variable length and range from minimum to maximum or it may be of fixed length in which the minimum is equal to the maximum.

**Data Element Reference Number**

Number assigned to each data element as a unique identifier.

**Data Element Requirement Designator**

A code defining the need for a data element value to appear in the segment if the segment is transmitted. The X12 codes are mandatory (M), optional (O), or conditional (C). DoD may consider a segment "mandatory" even though it is "optional" by X12 standards.

**Data Element Separator**

A unique character preceding each data element that is used to delimit data elements within a segment. DoD uses "\*" as the delimiter.

**Data Element Type**

A data element may be one of six types: numeric, decimal, identifier, string, date, or time.

**Delimiters**

Two levels of separators and a terminator. The delimiters are an integral part of the transferred data stream. They are specified in the interchange header and may not be used in a data element value elsewhere in the interchange. From highest to lowest level, the separators and terminator are segment terminator and data element separator.

**DISA**

Data Interchange Standards Association. A nonprofit organization funded by ASC X12 members to serve as the Secretariat for X12.

**DSTU**

Draft Standard for Trial Use. It represents a document approved for publication by the full X12 committee following membership consensus and subsequent resolution of negative votes. (Final Report of X12 Publications Task Group). The Draft EDI Standard for Trial Use document represents an ASC X12 approved standard for use prior to approval by ANSI. See ANSI Standard.

**EDI**

Electronic data interchange. The computer-application-to-computer-application exchange of business information in a standard format.

**Electronic Envelope**

Electronic information that binds together a set of transmitted documents being sent from one sender to one receiver.

**Element Delimiter**

A single-character that follows the segment identifier and separates each data element in a segment except the last.

**Functional Group**

A group of one or more transaction sets bounded by a functional group header segment and a functional group trailer segment.

**Functional Group Segments (GS/GE)**

These segments identify a specific functional group of documents such as purchase orders.

**Industry Conventions**

Defines how the ASC X12 standards are used by the specific industry

**Industry Guidelines**

Defines the EDI environment for using conventions within an industry. It provides assistance on how to implement X12 standards.

**Interchange Control Segments (ISA/IEA)**

These segments identify a unique interchange being sent from one sender to one receiver (see electronic envelope).

**Interchange Control Structure**

The interchange header and trailer segments that envelop one or more functional groups or interchange-related control segments and perform the following functions: (1) defines the data element separators and the data segment terminators, (2) identifies the sender and receiver, (3) provides control information for the interchange, and (4) allows for authorization and security information. (X12.5)

**Loop**

A group of semantically related segments; these segments may be either bounded or unbounded (X12.6). The N1 loop is an example of a loop, which includes Segments N1 to PER for name and address information.

**Mandatory (M)**

A data element/segment requirement designator that indicates the presence of a specified data element is required.

**Mapping**

The process of identifying the standard data element's relationship to application data elements.

**Max Use**

Specifies the maximum number of times a segment can be used at the location in a transaction set

**Message**

Entire data stream including the outer envelope

**Optional (O)**

A data element/segment requirement designator that indicates the presence of a specified data element/segment is at the option of the sending party and can be based on the mutual agreement of the interchange parties.

**Qualifier**

A data element that identifies or defines a related element, set of elements, or a segment. The qualifier contains a code taken from a list of approved codes.

**Repeating Segment**

A segment that may be used more than once at a given location in a transaction set. See Max Use.

**Security**

System screening that denies access to unauthorized users and protects data from unauthorized uses

**Segment**

Segments consist of logically related data elements in a defined sequence. A data segment consists of a segment identifier, one or more data elements each preceded by an element separator, and a segment terminator.

**Segment Directory**

Provides the purpose and format of the segments used in the construction of transaction sets. The directory lists each segment by name, purpose, identifier, the contained data elements in the specified order, and the requirement designator for each data element.

**Segment Identifier**

A unique identifier for a segment, consisting of a combination of two or three upper-case letters and digits. The segment identifier occupies the first-character positions of the segment. It is not a data element. The segment identifier in EDIFACT is a component data element — part of a composite data element consisting of a segment identifier and an explicit looping designator.

**Segment Terminator**

A unique character appearing at the end of a segment to indicate the termination of the segment, e.g., N/L.

**Syntax**

The grammar or rules that define the structure of the EDI standards (i.e., the use of loops, qualifiers, etc.). Syntax rules are published in ANSI X12.6.

**Transaction Set**

A document that unambiguously defines, in the standard syntax, information of business or strategic significance and consists of a header segment, one or more data segments in a specified order, and a trailer segment.

**Transaction Set ID**

An identifier that uniquely identifies the transaction set. This identifier is the first data element of the transaction set header segment.

**Translation**

The act of accepting documents in other than standard format and translating them to the standard.

**Version/Release**

Identifies the publication of the standard being used for the generation or the interpretation of data in the X12 standard format. May be found in the Functional Group Header Segment (GS) and in the Interchange Control Header Segment (ISA). See Control Segment.

**VICS Committee**

Voluntary Interindustry Communications Standards for EDI.

**X12**

The ANSI committee responsible for the development and maintenance of standards for EDI.

**X12.5**

Interchange Control Structure. This standard provides the interchange envelope of a header and trailer for the electronic interchange through a data transmission, and it provides a structure to acknowledge the receipt and processing of this envelope.

**X12.6**

Application Control Structure. This standard describes the control segments used to envelop loops of data segments, transaction sets, and groups of related transaction sets.

## 5.2 DoD GLOSSARY

**AIS**

Automated information systems

**DUSD (Logistics)**

Deputy Under Secretary of Defense (Logistics)

**DES**

Data encryption standard

**DISA**

Defense Information Systems Agency

**DLA**

Defense Logistics Agency

**ISA**

Interchange control header identifier

**NIST**

National Institute of Standards and Technology

**NTE**

Note identifier

**PLUS**

Protection of logistics unclassified/sensitive systems

**UN/EDIFACT**

EDIFACT; electronic data interchange for administration, commerce, and transport

**USD (A & T)**

Under Secretary of Defense for Acquisition and Technology

# REPORT DOCUMENTATION PAGE

*Form Approved  
OPM No. 0704-0188*

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources gathering, and maintaining the data needed, and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

1. AGENCY USE ONLY (Leave Blank)			2. REPORT DATE Jul 1993	3. REPORT TYPE AND DATES COVERED Final	
4. TITLE AND SUBTITLE  DoD Draft Electronic Data Interchange (EDI) Convention: ASC X12 Transaction Set 841 Specifications/Technical Information (Solicitation Technical Documentation) (Version 003030)			5. FUNDING NUMBERS  C MDA903-90-C-0006 PE 0902198D		
6. AUTHOR(S)  Stephen Luster Richard Modrowski					
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)  Logistics Management Institute 6400 Goldsboro Road Bethesda, MD 20817-5886			8. PERFORMING ORGANIZATION REPORT NUMBER  LMI- PL311LN1		
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)  CALS Evaluation and Integration Office 5203 Leesburg Pike, Skyline 2 – Suite 1609 Falls Church, Virginia 22041			10. SPONSORING/MONITORING AGENCY REPORT NUMBER		
11. SUPPLEMENTARY NOTES  Prepared in cooperation with Data Interchange Standards Association, the Secretariat and administrative arm of the Accredited Standards Committee X12.					
12a. DISTRIBUTION/AVAILABILITY STATEMENT  A: Approved for public release; distribution unlimited			12b. DISTRIBUTION CODE		
13. ABSTRACT (Maximum 200 words)  This is a draft Electronic Data Interchange (EDI) systems design document that describes the draft standard or "convention" the Department of Defense (DoD) will use to transmit in binary form, specifications/technical information, which accompany a solicitation, using the ASC X12 Transaction Set 841 Specifications/ Technical Information (003030).					
14. SUBJECT TERMS  Electronic Data Interchange; EDI; DoD EDI Convention; Electronic Commerce; ANSI X12, X12; electronic standards; electronic business standards; computer-to-computer exchange of data; electronic documents; electronic records; paperless environment; conventions			15. NUMBER OF PAGES 80		
			16. PRICE CODE		
17. SECURITY CLASSIFICATION CF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT UL		